

MA769

Silicon epitaxial planer type (cathode common)

For switching power supply

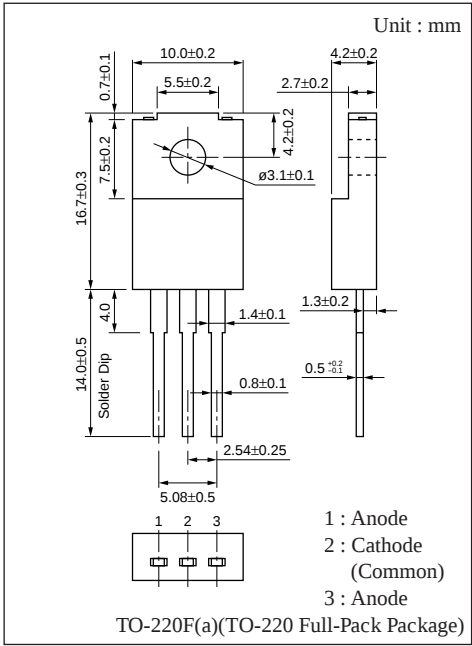
■ Features

- Forward current (average) $I_{F(AV)}$: 10A type
- Repetitive peak reverse voltage V_{RRM} : 150V type
- Sealed in TO-220F full-pack package, with high reliability
- Cathode common dual type
- Low forward voltage V_F

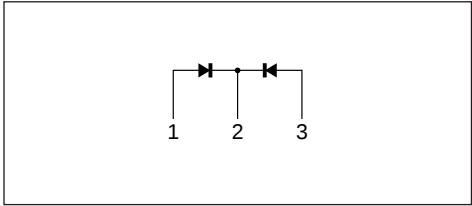
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	150	V
Average forward current	$I_{F(AV)}$	10	A
Non-repetitive peak forward surge current	I_{FSM}^*	80	A
Junction temperature	T_j	– 40 to +125	°C
Storage temperature	T_{stg}	– 40 to +125	°C
Operating ambient temperature	T_{opr}	– 25 to + 70	°C

* Sine half wave : 10ms/cycle



■ Internal Connection



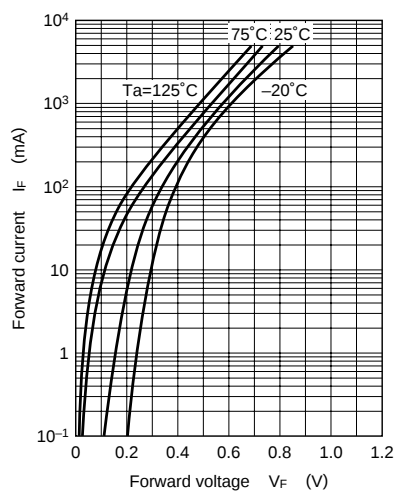
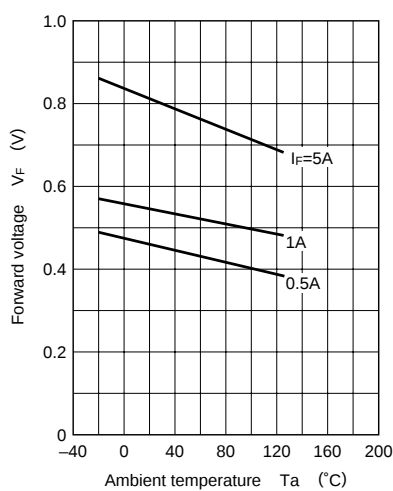
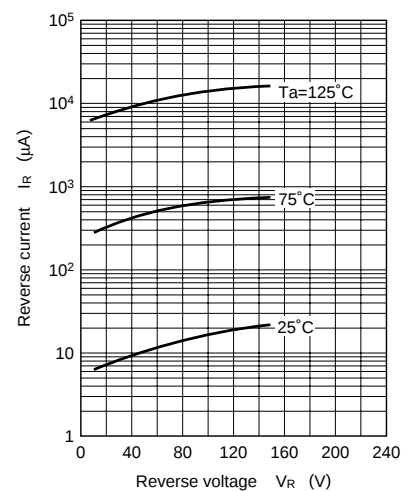
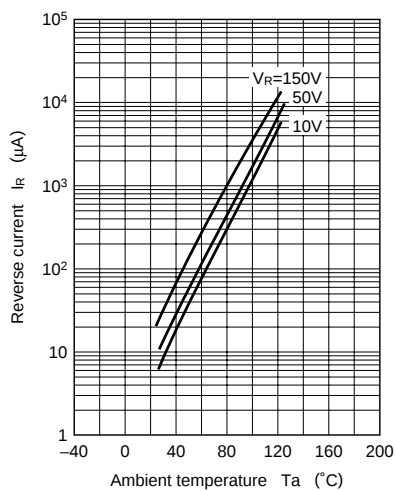
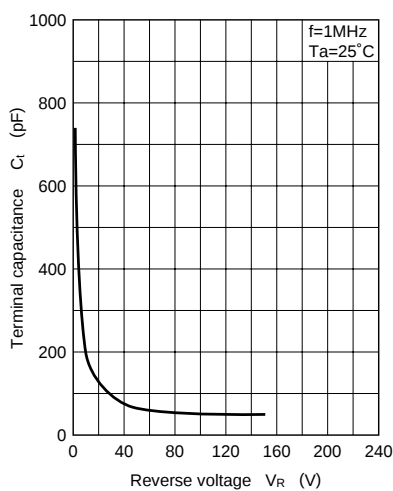
■ Electrical Characteristics (Ta= 25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Reverse current (DC)	I_R	$V_R = 150V$			3	mA
Forward voltage (DC)	V_F	$I_F = 5A$			0.85	V
Thermal resistance	$R_{th(j-c)}$	Flat direct current between junction and case			3	°C/W

❖ Rated input/output frequency : 50MHz

■ Marking

Part Number	MA769
Symbol	MA769

$I_F - V_F$  $V_F - T_a$  $I_R - V_R$  $I_R - T_a$  $C_t - V_R$  $I_{F(AV)} - T_C$ 